Afuwin downloadable from here:

https://www.wimsbios.com/amiflasher.jsp

Instruction (mutli-OS):

Taken from here: https://help.ubuntu.com/community/SamsungBIOS

How to check the latest BIOS version

Understanding the Samsung Update Software program

This part explains how the official Samsung Update Software checks the latest BIOS version and how it downloads the latest file. This example describes a Samsung Ultrabook, model NP530U3B-A01IT.
The Update Software is a Windows-only program that downloads the latest BIOS version information from Samsung, it compares it against the currently installed version and allows the user to update the firmware.
The tool performs an HTTP request to the following URL:
`http://sbuservice.samsungmobile.com/BUWebServiceProc.asmx/GetContents?platformID=XK&PartNumber=AAAA`
At the time of writing (February, 2016), the following content is returned:

```
<?xml version="1.0" encoding="utf-8"?>
<Content xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://sbuservice.samsungmobile.com/">
  <ID>1079</ID>
  <Version>13XK</Version>
  <Importance>0</Importance>
  <MsgType>0</MsgType>
  <AutoInstall>0</AutoInstall>
  <ExclusiveInstall>0</ExclusiveInstall>
  <FilePathName>ITEM_20130405_1079_WIN_13XK.exe</FilePathName>
  <FileSize>3424280</FileSize>
  <Downloaded>0</Downloaded>
</Content>
```

It can be seen that **the most important parameter** is `platformID` which is composed by the last letters of the BIOS version suitable for the computer.
Parameter `PartNumber` **always** assumes the value AAAA.
From the information displayed above, we can see that the latest version is 13XK. The full URL of the most recent BIOS version is:
`http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/ITEM_20130405_1079_WIN_13XK.exe`

Replicating the steps manually

The first thing to do is to identify the current BIOS version by issuing `sudo dmidecode -t0`:

```
# dmidecode 2.12
SMBIOS 2.6 present.

Handle 0x0000, DMI type 0, 24 bytes
BIOS Information
        Vendor: Phoenix Technologies Ltd.
        Version: 13XK
```

```
        Release Date: 03/28/2013
        Address: 0xE0000
        Runtime Size: 128 kB
        ROM Size: 2560 kB
        Characteristics:
                PCI is supported
                BIOS is upgradeable
                BIOS shadowing is allowed
                Boot from CD is supported
                Selectable boot is supported
                EDD is supported
                Print screen service is supported (int 5h)
                8042 keyboard services are supported (int 9h)
                Serial services are supported (int 14h)
                Printer services are supported (int 17h)
                CGA/mono video services are supported (int 10h)
                NEC PC-98
                ACPI is supported
                USB legacy is supported
                BIOS boot specification is supported
                Function key-initiated network boot is supported
                Targeted content distribution is supported
        BIOS Revision: 0.1
```

In this case the platform ID is XK.
Then it's easy to figure out what is the latest BIOS version. It can be seen from the URL of the EXE file. Run the following command:
`wget -O - "http://sbuservice.samsungmobile.com/BUWebServiceProc.asmx/GetContents?platformID=XK&PartNumber=AAAA"`
Which will return the XML file discussed above. The interesting row is:
`<FilePathName>ITEM_20130405_1079_WIN_13XK.exe</FilePathName>`
The BIOS version is 13XK. This row can also be used to compose the URL and download the EXE file with:
`wget http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/ITEM_20130405_1079_WIN_13XK.exe`

What remains to be tested

Further investigation is necessary to determine if the EXE file can be run in DOS mode by using a FreeDOS environment. Alternatively, it should be possible to extract the ROM file contained in the EXE. The ROM file can be flashed by using the AMI Flasher utility for Linux.

Alternative way:

Taken from here

After 5+ years, @isosunrise's guide and this thread remain our go-to resource on how to locate, download, extract and flash samsung BIOS updates. This guide is being referred to in countless other threads. But there have been some changes since the guide was written, including a tool from @osfrolov in post #151 to search for BIOS versions. Please see post #350 (that was a link) for summarized guidance on the whole procedure and links to other useful posts in this thread.

I figured out a way to downgrade the BIOS in the Samsung Series 9, but it should work for any modern day Samsung laptop*. Keep in mind, I am no expert, so use at your own risk. These instructions easily worked for me without any

complications.

*Confirmed to work on the SS9, SS7, and SS5. These instructions are dependent on whether your system uses Winflash or Afuwin to update the BIOS. If your extracted "__Samsung_Update" folder does not contain either BIOS update software nor a BIOS *.rom, try an older version.

I have a Samsung Series 9 2012 NP900X3B-A01US (Windows 7) and have been updating the BIOS through the months. The issue is as the updates are making the system "more" Windows 7/8 compatible and other fixes, it sometimes breaks things. Right now on version P08AAH, the system will not resume after hibernate/IRST upon opening the lid (resumes if power button; resumes from sleep opening the lid); which I find really annoying. I actually have a series of old BIOS update executables saved during each update, but when I try to run them to downgrade, it will say "Fail BIOS Date... The system BIOS is newer version than the update. The update will be terminated."

I wanted to roll back my BIOS from P08AAH to P07AAH. I can now downgrade the BIOS via WinFlash, but the Micom will remain at P08. I cannot find the roms for the Micom, so I am going to downgrade the BIOS to the older P06AAH instead (keeping the Micom for P08), then upgrade the whole system to P07AAH (both BIOS and Micom).

First, you need to download your BIOS update exe with rom from Samsung; you may have saved them during the updates. If not, some detective skills may be involved. Find the latest BIOS version you have and work backwards. You can see it in the BIOS (restart, press F2), or just download the latest version from Samsung's BIOS Update software. For example, anything ending in AAH (the Platform ID) is for my laptop NP900X3B-A01US. Link below contains the BIOS update exe file names for other Samsung laptops.

http://sbuservice.samsungmobile.com/BUWebServiceProc.asmx/BIOSItemList

*The link was reported to be down.
List from November 2012:
View attachment BIOSItemList(112912).zip
List from Jan 31, 2013 (cached on google):
View attachment BIOSItemList (Google Cache Jan 31 2013).zip

Once found, copy your file name ie. ITEM_20120509_504_WIN_P06AAH.exe and modify the url below to download. Download all the BIOS update exe you may need.

HTML:
```
http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/
ITEM_20120509_504_WIN_P06AAH.exe
```

1. Run ITEM_20120509_504_WIN_P06AAH.exe, but don't click OK or Cancel to proceed with BIOS update; if you do, the contents extracted in the Samsung Update folder will be deleted (change exe for the BIOS relevant to your laptop).

2. Go to Temp (Users/*Name*/AppData/Local/Temp) folder and find the extracted folder "__Samsung_Update", make it read only, click cancel for the Bios update currently being ran, and then undo read only. Alternatively, you can just copy and paste the folder. BIOS rom, WinFlash (or Afuwin), as well as other files are extracted in that folder. If you try to run WinFlash, it will not go through, giving

the error "Flash BIOS is not an upgrade (same or older version number)!" Other users have reported that their system uses Afuwin instead of Winflash.

3. In cmd prompt, run below: (change the *.rom to your rom found in the samsung update folder, and of course make sure you have cd to directory with both WinFlash or Afuwin and the rom).

If Winflash:

Code:
```
WinFlash.exe P06AAH.rom /v /cs /sd /sv /svs
```

If Afuwin: http://forum.notebookreview.com/sam...ops-roll-back-bios-updates-7.html#post9062049, thanks iain_m.

Code:
```
afuwinx64 P05AAB.rom /p /b /n /e /r /x
```

4. The system will update the Bios (not Micom) and reboot (your Micom may also be updated if you use Afuwin).

5. Run ITEM_20120614_555_WIN_P07AAH.exe to update both the BIOS and Micom (ie, next version up, your desired BIOS)

Now, I am back to P07AAH (both BIOS and Micom). It is a roundabout way but it works. If someone can find the Micom bin/rom file, then it will be a little quicker since there is an exe to update Micom in the folder, but I can't seem to find the rom. My lid open from hibernate is restored (which was actually a problem from the updated Micom and probably not the BIOS itself)!

Misc. useful info:

Find the latest BIOS name from your internet browser, change the platformID (ie, AAH) with your model.

HTML:
```
http://sbuservice.samsungmobile.com/BUWebServiceProc.asmx/GetContents?platformID=AAH&PartNumber=AAAA
```

Some detective skills may be involved... find the latest bios version you have and work backwards (You can see it in the Bios, or just download the latest version from Samsung's Bios Update software)... For example, anything ending in AAH (the Platform ID) is for my laptop NP900X3B-A01US. List below contains the file names for other laptops/bios.

http://sbuservice.samsungmobile.com/BUWebServiceProc.asmx/BIOSItemList

Once found... copy your file name ie. ITEM_20121024_754_WIN_P08AAH.exe and modify the url below to download.

[xurl]http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/ITEM_20121024_754_WIN_P08AAH.exe[/url]

The xml file has the file name to download. Copy the file name and modify the link I listed earlier...

[xurl]http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/ITEM_20121024_754_WIN_P08AAH.exe[/url]

For AAG, your files are then...

http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/ITEM_20120306_419_WIN_P00AAG.exe
http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/ITEM_20120419_477_WIN_P01AAG.exe
http://sbuservice.samsungmobile.com/upload/BIOSUpdateItem/ITEM_20120809_616_WIN_P03AAG.exe

Also to call it directly:

The Temp folder is actually hidden. You may need to unhide your folders... open Explorer, Tools, Folder Options, View, and check "Show hidden files, folders, and drives." Then, you will see it. If you want to downgrade to P05, you should downgrade to P04 or lower first, then upgrade to P05.

You can also try this, bypassing the Temp folder, and little shorter for newbie's. *Update, this will not work for SS5 since WinFlash is missing. May work for SS9/SS7.*

1. Run the ITEM_20120725_593_WIN_P04AAA.exe, but don't click ok or cancel.
2. Open cmd prompt:

cd AppData\Local\Temp__Samsung_Update
WinFlash.exe P04AAA.rom /v /cs /sd /sv /svs

3. After bios is updated and system restarts, run ITEM_20120830_637_WIN_P05AAA.exe to completion.

HOORAY. Experementally i found the way how to downgrade bios on ss5 (530u3c) with SFlash64

SFlash64 /n /exit /file P10AAJ.rom